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6 June 1956

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EAST GERMANY/VP-SEA research on radar and thermal radiation spotting gear.

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Data on radar and thermal radiation spotting gear in amplification of ref. (a). Radar covered includes following types: EULE, HABICHT, ADEBE, BELLENSITTICH, FISCHADLER, BRAHRENEEST. Test apparatus for radar sets called REMBOCK was also under development.

1. Radar set type EULE.

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EULE-type radar was to become a so-called "Rundsichtfunkmessgeraet" (panoramic radar): a shore-based set to serve in detecting ships approaching the coast. Requirements as set forth by VP-SEA were: range of 200 kilometers, capacity of 70 kilowatt, to operate on 10-centimeter band. The set is in design and development stage at RPT FURBERK LEIPZIG-PLAGWITZ and target date is unknown.

2. Radar set type HABICHT.

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3. Radar set type KOLKE.

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Still referred to as "Kollisionsschutzgeraet", KOLKE-type radar was a set similar to above KULE-type. Its range was 30 nautical miles. Requirements set forth by VP-SSE for this shipboard radar were: capacity of 50 kilowatts, operational voltage of 220 volts, to be equipped with below listed magnetron-tube, (see item 10) and to operate on 3.2-centimeter band. Designing and developing was underway at RPT FUNKWERK LEIPZIG-PLAGWITZ. Target date is unknown.

4. Radar set type WELLENSITTICH.

Another "Kollisionsschutzgeraet" very closely resembling KOLKE-type radar, but with a reduced range of 12 nautical miles. This set was built by RPT FUNKWERK LEIPZIG-PLAGWITZ prior to 1955. It was said to have an "Entfernungsfehler" range error, of $\pm 30\%$.

5. Fire control radar set type FISCHADLER.

FISCHADLER-type "Funkmessortungsgeraet" was intended to be installed aboard FALKE-C class units. Enclosure (5) to Reference (a) states it would be used for larger ships. By that was meant larger VP-SSE units. The set was to be operated with 220/380-volt AC. Accuracy to be achieved was ± 5 meters at the required maximum range of 100 kilometers.

6. "Eich- & Kontrollgeraet fuer Funkmessgeraete" type REIBOCK.

This set is being designed and developed by RPT FUNKWERK LEIPZIG-PLAGWITZ. It was to serve as a control-stand at the plant for new electronics equipment.

7. "Ultrarotsichtgeraet".

Probably not the same as the "Wärmepeilgeraet" (see reference (a)) which was initiated by VP-SSE but will also be built for KVP. "Ultrarotsichtgeraet" was to be built for VP-SSE exclusively.

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8. "Zentrale Auswertestelle" type KHAERHNEST.

[] this gear was for shipboard or for shore use. The following possible use had been discussed a very few times among high ranking VP-SSE officers: detect ships at sea, measure their distance and bearing, transmit above findings to guns. The gear was planned to be built for "keittlose Uebermittlung an die zentralen Organe" as the official version read; the latter "zentrale Organe" could not be explained

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Below "elektronisches Streckengerat" was an accessory to "Zentrale Auswertestelle".

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9. "Elektronisches Streckengerat".

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[redacted] the set proper and could not explain its name or purpose either. He only knew that it was to be an accessory to above "Zentrale Auswertestelle". He assumed that it will be designed and developed by RPT PUNKBERG REIFELOPAGNITZ. This research project was among those ordered and paid for by AMT FUER TECHNİK on behalf of VI-Sek.

10. Magnetron-tube.

This was to become a "Hochleistungsimpulsenderrohr" (high-capacity pulse transmitter-tube). It was being designed and developed by one Dr. LAITANUS (RE) (FNU) in East-BERLIN. It was to be a 10-centimeter tube with 70-kw "Impulsleistung". The tube was to be used in above ROSEK and WELLENSTICH-type radar. This research project was among those ordered and paid for by ZENTRALAMT FUER FORSCHUNG & ENTWICKLUNG BEI DER STAATLICHEN PLANKOMMISSION on behalf of VP-Sek. 80,000 East DM had been approved for 1956-work on the project.

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